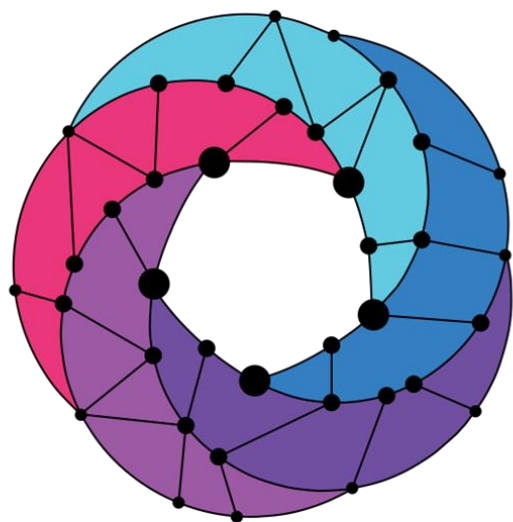




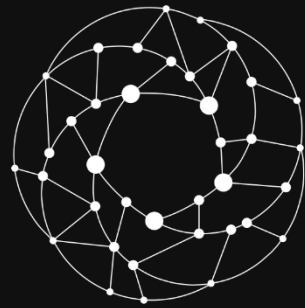
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OSM Hackfest – Session 10

How to develop in OSM

Eduardo Sousa (Canonical)
Javier García (Tech Mahindra)





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Main Resources

- Development Guidelines
[https://osm.etsi.org/wikipub/index.php/Workflow with OSM tools](https://osm.etsi.org/wikipub/index.php/Workflow%20with%20OSM%20tools)
- Developer HowTo
[https://osm.etsi.org/wikipub/index.php/Developer HowTo](https://osm.etsi.org/wikipub/index.php/Developer%20HowTo)
- Developer HowTo for RO
[https://osm.etsi.org/wikipub/index.php/Developer HowTo for RO Module](https://osm.etsi.org/wikipub/index.php/Developer%20HowTo%20for%20RO%20Module)
- How to upgrade components
[https://osm.etsi.org/wikipub/index.php/How to upgrade the OSM Platform](https://osm.etsi.org/wikipub/index.php/How%20to%20upgrade%20the%20OSM%20Platform)

Other places you should visit

- Gitweb
<https://osm.etsi.org/gitweb/>
- Gerrit
<https://osm.etsi.org/gerrit/>
- Bugzilla
<https://osm.etsi.org/bugzilla/>

I need help with OSM. What should I do?

- Search the wiki

https://osm.etsi.org/wikipub/index.php/Main_Page

- Ask in OSM Slack Workspace

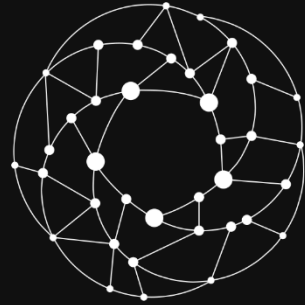
https://join.slack.com/t/opensourcemanos/shared_invite/enQtMzQ3MzYzNTQ0NDIyLWJkMzRjNDM0MjFjODYzMGQ3ODIzMzJlNTg2ZGI5OTdiZjFiNDMyMzYxMjRjNDU4N2FmNjRjNzY5NTE1MjgzOTQ

- Send an email to the mailing list

OSM_TECH@list.etsi.org

I would like to present something new

- TECH Call (every Thursday at 4PM CET) - General topics
- Service Assurance Call (every other Wednesday at 4PM CET) - Monitoring topics
- DevOps Call (every other Wednesday at 4PM CET) – DevOps Pipeline topics
- MARCOM Call (every other Wednesday at 4PM CET) - Marketing OSM
NOTE: DevOps and MARCOM coincide
- Send an email to the mailing list
OSM_TECH@list.etsi.org



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Developer Workflow

How to contribute

There are multiple ways to contribute

- Writing code
- Writing tests
- Writing documentation
- Helping in Devops
- Helping the MARCOM team
- Creating a PoC

I want to contribute code

- To contribute code, tests and documentation to the OSM community you need an ETSI OSM account
<https://osm.etsi.org/about/how-to-join>
- As an organization:
 - ETSI Member
 - OSM Participant
- As an individual developer
<https://osm.etsi.org/register>

1. Clone the repository

```
git clone https://osm.etsi.org/gerrit/osm/NBI.git
```

2. Install the commit-msg hook

```
curl -Lo NBI/.git/hooks/commit-msg http://osm.etsi.org/gerrit/tools/hooks/commit-  
msg
```

3. Make the hook executable

```
chmod u+x NBI/.git/hooks/commit-msg
```

4. Make your changes

Contribution workflow (II)

5. Add an Apache 2 license header for your new files

6. Check your changes

```
git diff
```

7. Add all the files that are necessary for your contribution

```
git add <path_of_file>
```

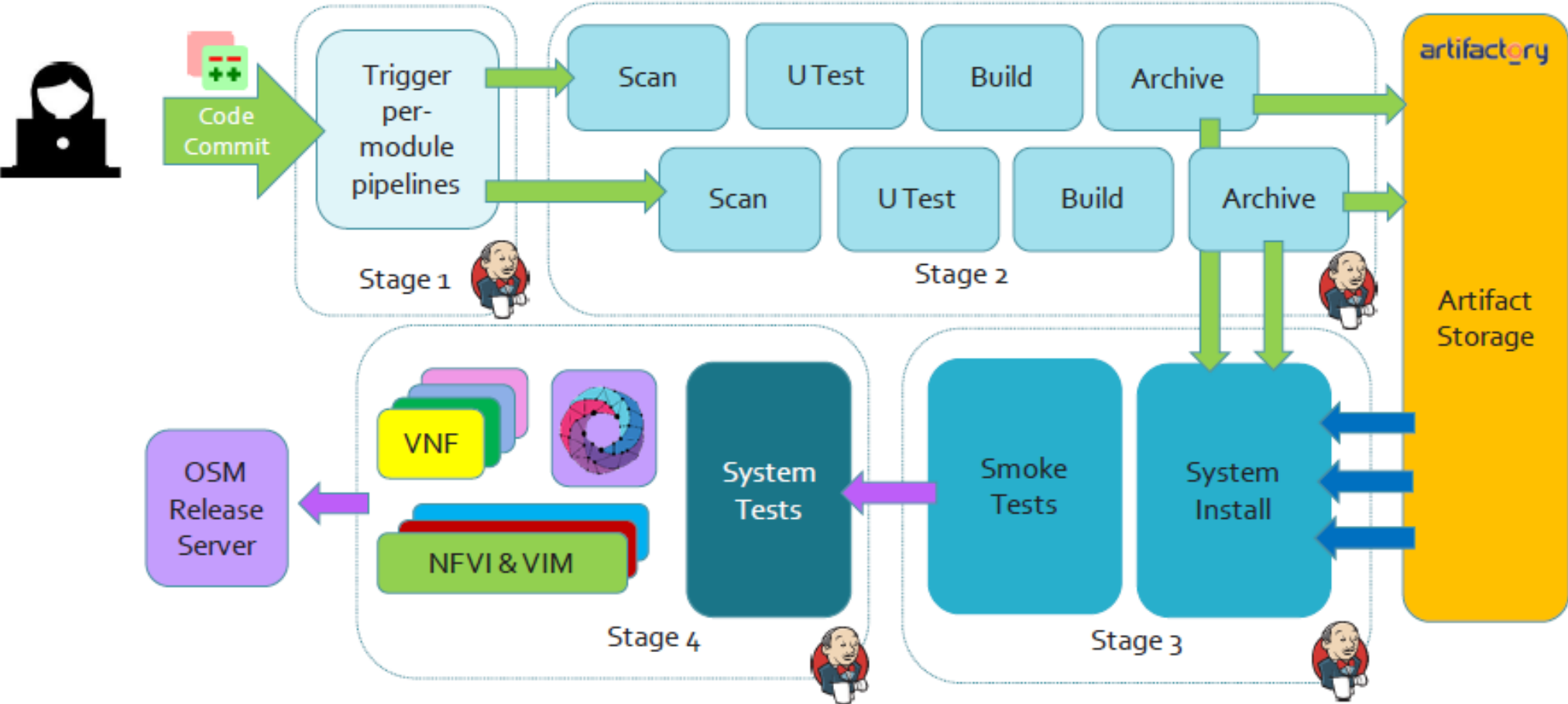
7. Commit your changes

```
git commit -s -m "Relevant message in the context of the commit"
```

8. Push your changes upstream

```
git push origin HEAD:refs/for/master
```

CI/CD Pipeline



Wait for the MDL to review your commit.

It might yield, one of two outcomes:

- 1) The code is OK and you get +2 in the Code-Review
- 2) The code is not OK and you get -2 in the Code-Review

For case 2), fix the error and push it again and again until the MDL think the code is OK.

Contribute with a Feature Request

To submit a new feature for OSM you need to create a Feature Request

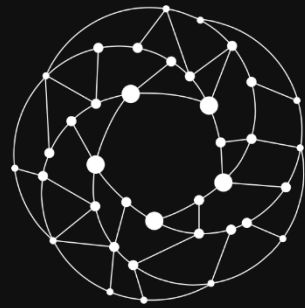
- Check open Features:
Go to <https://osm.etsi.org/gerrit> and search for “project:osm/Features status:Open”
- Feature Requests are written using Markdown format and use the following [template](#)

New Feature Contribution via Gerrit

1. Go to <http://osm.etsi.org/gerrit> and click on Projects > List > osm/Features
2. Click on “Create change”
3. Write the branch “master”, put a title and a description and click on “Create”
4. Click on “Edit” and then “Add” to indicate a name for your file
Important: The file must be located in the root folder of the repo

New Feature Contribution via Gerrit (II)

5. Click “Open” to open an online editor and paste your feature text there
6. “Save” the changes and “Done Editing”
7. Finally “Publish Edit” to push it to the staging area. Now your feature is available for review
8. Inform the OSM TECH community of the new feature by sending the link to OSM_TECH@list.etsi.org and request feedback & TSC review

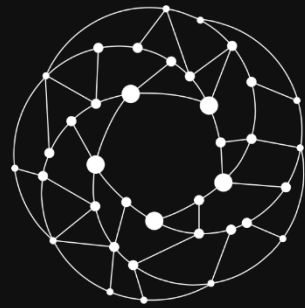


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Extra resources

Remote debugging dockers

<https://davidraleigh.github.io/2017/06/27/Debugging-a-Remote-Docker-Container-with-PyCharm.html>



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The End